Aging Detection in Female Based on Antioxidant Status

Publons ID	37933339
Wos ID	WOS:000216724500002
Doi	
Title	Aging Detection in Female Based on Antioxidant Status
First Author	Winarsi, Hery; Yuniati, Alice; Purwanto, Agus;
Last Author	
Authors	Winarsi, H; Yuniati, A; Purwanto, A;
Publish Date	SEP 2013
Journal Name	MAJALAH KEDOKTERAN BANDUNG-MKB-BANDUNG MEDICAL JOURNAL
Citation	3
Abstract	Aging is initiated by the accumulation of free radicals. Antioxidants which were known to control the reactivity of free radicals can be assumed as an anti aging. This study aimed to determine the age of the onset of aging in female based on antioxidant status. The analytical observational study with purposively random sampling design was conducted in Purwokerto in the year of 2008 with 34 females included toddlers, children, adolescents, adults, old, and elderly who were healthy, and live in Purwokerto. Antioxidant status was known by enzyme activities of superoxide dismutase (SOD), catalase, gluthathion peroxidase (GSH-PX) in the erythrocytes and malondialdehyde (MDA) levels in the plasma. Data were tested by analysis of varians (ANOVA). Antioxidant status in healthy female from toddlers to the elderly were prime as indicated by the high SOD, catalase, and GSH-PX activities that ranged 1,469+3.58-2,009+4.12 U/mg; 20.37+0.01-31.45+0.04 UI/mg; 79.03+0.01-225.2+0.04 mu mol/g protein of erythrocytes, respectively; supported by low levels of MDA that ranged from 3,134+2.56-3,185+3.06 pmol/mL plasma. In general, the decrease in antioxidant status occurred in adults, so at that age female began to need additional antioxidant supplements in order to inhibit the rate of aging processes in the body.
Publish Type	Journal
Publish Year	2013
Page Begin	141
Page End	146
Issn	0126-074X
Eissn	2338-6223
Url	https://www.webofscience.com/wos/woscc/full-record/WOS:000216724500002
Author	Dr Ir HERY WINARSI, M.S